

850  
0228

\*09975059\*

OIPE

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/975,059A

DATE: 02/20/2003 P6

TIME: 15:39:04

Input Set : A:\00-713-i15 Rev seq list.txt  
Output Set: N:\CRF4\02202003\I975059A.raw

3 <110> APPLICANT: Mirkin, Chad A.  
4 Letsinger, Robert L.  
5 Mucic, Robert C.  
6 Storhoff, James J.  
7 Elghanian, Robert  
8 Taton, Thomas A.  
10 <120> TITLE OF INVENTION: NANOPARTICLES HAVING OLIGONUCLEOTIDES ATTACHED THERETO  
11 AND USES THEREFOR  
13 <130> FILE REFERENCE: 00-713-i15  
15 <140> CURRENT APPLICATION NUMBER: 09/975,059A  
16 <141> CURRENT FILING DATE: 2001-10-11  
18 <150> PRIOR APPLICATION NUMBER: 09/603,830  
19 <151> PRIOR FILING DATE: 2000-06-26  
21 <150> PRIOR APPLICATION NUMBER: 09/344,667  
22 <151> PRIOR FILING DATE: 1999-06-25  
24 <150> PRIOR APPLICATION NUMBER: 09/240,755  
25 <151> PRIOR FILING DATE: 1999-01-29  
27 <150> PRIOR APPLICATION NUMBER: PCT/US97/12783  
28 <151> PRIOR FILING DATE: 1997-07-21  
30 <150> PRIOR APPLICATION NUMBER: 60/031,809  
31 <151> PRIOR FILING DATE: 1996-07-29  
33 <150> PRIOR APPLICATION NUMBER: 60/200,161  
34 <151> PRIOR FILING DATE: 2000-04-26  
36 <160> NUMBER OF SEQ ID NOS: 64  
38 <170> SOFTWARE: Microsoft Word 2000  
40 <210> SEQ ID NO: 1  
41 <211> LENGTH: 20  
42 <212> TYPE: DNA  
43 <213> ORGANISM: Artificial Sequence  
45 <220> FEATURE:  
46 <223> OTHER INFORMATION: Description of Artificial Sequence:random  
47 synthetic sequence  
49 <400> SEQUENCE: 1  
50 aaacgactct agcgcgtata 20  
53 <210> SEQ ID NO: 2  
54 <211> LENGTH: 20  
55 <212> TYPE: DNA  
56 <213> ORGANISM: Artificial Sequence  
58 <220> FEATURE:  
59 <223> OTHER INFORMATION: Description of Artificial Sequence:random  
60 synthetic sequence  
62 <400> SEQUENCE: 2 20  
63 atggcaacta tacgcgttag

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/975,059A

DATE: 02/20/2003  
TIME: 15:39:04

Input Set : A:\00-713-i15 Rev seq list.txt  
Output Set: N:\CRF4\02202003\I975059A.raw

66 <210> SEQ ID NO: 3  
67 <211> LENGTH: 16  
68 <212> TYPE: DNA  
69 <213> ORGANISM: Artificial Sequence  
71 <220> FEATURE:  
72 <223> OTHER INFORMATION: Description of Artificial Sequence:random  
73 synthetic sequence  
75 <400> SEQUENCE: 3  
76 ccttgagatt tccctc 16  
79 <210> SEQ ID NO: 4  
80 <211> LENGTH: 16  
81 <212> TYPE: DNA  
82 <213> ORGANISM: Artificial Sequence  
84 <220> FEATURE:  
85 <223> OTHER INFORMATION: Description of Artificial Sequence:random  
86 synthetic sequence  
88 <400> SEQUENCE: 4  
89 gagggaaatc tcaagg 16  
92 <210> SEQ ID NO: 5  
93 <211> LENGTH: 18  
94 <212> TYPE: DNA  
95 <213> ORGANISM: Artificial Sequence  
97 <220> FEATURE:  
98 <223> OTHER INFORMATION: Description of Artificial Sequence:random  
99 synthetic sequence  
101 <400> SEQUENCE: 5 18  
102 aacttgcgt aatggcga  
105 <210> SEQ ID NO: 6  
106 <211> LENGTH: 26  
107 <212> TYPE: DNA  
108 <213> ORGANISM: Artificial Sequence  
110 <220> FEATURE:  
111 <223> OTHER INFORMATION: Description of Artificial Sequence:random  
112 synthetic sequence  
114 <400> SEQUENCE: 6  
115 aagttgcgt ttacggctaa tggcga 26  
118 <210> SEQ ID NO: 7  
119 <211> LENGTH: 15  
120 <212> TYPE: DNA  
121 <213> ORGANISM: Artificial Sequence  
123 <220> FEATURE:  
124 <223> OTHER INFORMATION: Description of Artificial Sequence:random  
125 synthetic sequence  
127 <400> SEQUENCE: 7  
128 ttccttccc ttttc 15  
131 <210> SEQ ID NO: 8  
132 <211> LENGTH: 15  
133 <212> TYPE: DNA  
134 <213> ORGANISM: Artificial Sequence

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/975,059A

DATE: 02/20/2003

TIME: 15:39:04

Input Set : A:\00-713-i15 Rev seq list.txt  
 Output Set: N:\CRF4\02202003\I975059A.raw

```

136 <220> FEATURE:
137 <223> OTHER INFORMATION: Description of Artificial Sequence:random
138 synthetic sequence
140 <400> SEQUENCE: 8
141 gaaaaggaa ggaga
144 <210> SEQ ID NO: 9
145 <211> LENGTH: 15
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Description of Artificial Sequence:random
151 synthetic sequence
153 <400> SEQUENCE: 9
154 cttttccctt cctct
157 <210> SEQ ID NO: 10
158 <211> LENGTH: 15
159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Description of Artificial Sequence:random
164 synthetic sequence
166 <400> SEQUENCE: 10
167 aaacgactct agcgcgtata gttgccat
170 <210> SEQ ID NO: 11
171 <211> LENGTH: 28
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Description of Artificial Sequence:random
177 synthetic sequence
179 <400> SEQUENCE: 11
180 atggcaacta tacgcgtat agtcgttt
183 <210> SEQ ID NO: 12
184 <211> LENGTH: 15
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Description of Artificial Sequence:random
190 synthetic sequence
192 <400> SEQUENCE: 12
193 cctatcgacc atgct
196 <210> SEQ ID NO: 13
197 <211> LENGTH: 30
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Description of Artificial Sequence:random
203 synthetic sequence
205 <400> SEQUENCE: 13

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/975,059A

DATE: 02/20/2003

TIME: 15:39:04

Input Set : A:\00-713-i15 Rev seq list.txt  
 Output Set: N:\CRF4\02202003\I975059A.raw

206 agcatggtcg ataggaaacg actctagcgc 30  
 209 <210> SEQ ID NO: 14  
 210 <211> LENGTH: 15  
 211 <212> TYPE: DNA  
 212 <213> ORGANISM: Artificial Sequence  
 214 <220> FEATURE:  
 215 <223> OTHER INFORMATION: Description of Artificial Sequence:random  
 216 synthetic sequence  
 218 <400> SEQUENCE: 14  
 219 gcgctagagt cgttt 15  
 222 <210> SEQ ID NO: 15  
 223 <211> LENGTH: 30  
 224 <212> TYPE: DNA  
 225 <213> ORGANISM: Artificial Sequence  
 227 <220> FEATURE:  
 228 <223> OTHER INFORMATION: Description of Artificial Sequence:random  
 229 synthetic sequence  
 231 <400> SEQUENCE: 15  
 232 agcatggtcg ataggatggc aactatacgc 30  
 235 <210> SEQ ID NO: 16  
 236 <211> LENGTH: 24  
 237 <212> TYPE: DNA  
 238 <213> ORGANISM: Artificial Sequence  
 240 <220> FEATURE:  
 241 <223> OTHER INFORMATION: Description of Artificial Sequence:random  
 242 synthetic sequence  
 244 <400> SEQUENCE: 16  
 245 gtcgatagga aacgactcta gcgc 24  
 248 <210> SEQ ID NO: 17  
 249 <211> LENGTH: 30  
 250 <212> TYPE: DNA  
 251 <213> ORGANISM: Artificial Sequence  
 253 <220> FEATURE:  
 254 <223> OTHER INFORMATION: Description of Artificial Sequence:random  
 255 synthetic sequence  
 257 <400> SEQUENCE: 17  
 258 agcatggttg ataggaaacg actctagcgc 30  
 261 <210> SEQ ID NO: 18  
 262 <211> LENGTH: 30  
 263 <212> TYPE: DNA  
 264 <213> ORGANISM: Artificial Sequence  
 266 <220> FEATURE:  
 267 <223> OTHER INFORMATION: Description of Artificial Sequence:random  
 268 synthetic sequence  
 270 <400> SEQUENCE: 18  
 271 agcatgtttg ataggaaacg actctagcgc 30  
 274 <210> SEQ ID NO: 19  
 275 <211> LENGTH: 12  
 276 <212> TYPE: DNA

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/975,059A

DATE: 02/20/2003

TIME: 15:39:04

Input Set : A:\00-713-i15 Rev seq list.txt  
Output Set: N:\CRF4\02202003\I975059A.raw

277 <213> ORGANISM: Artificial Sequence  
279 <220> FEATURE:  
280 <223> OTHER INFORMATION: Description of Artificial Sequence:random  
281 synthetic sequence  
283 <400> SEQUENCE: 19  
284 tctcaactcg ta 12  
287 <210> SEQ ID NO: 20  
288 <211> LENGTH: 12  
289 <212> TYPE: DNA  
290 <213> ORGANISM: Artificial Sequence  
292 <220> FEATURE:  
293 <223> OTHER INFORMATION: Description of Artificial Sequence:random  
294 synthetic sequence  
296 <400> SEQUENCE: 20  
297 cgcattcagg at 12  
300 <210> SEQ ID NO: 21  
301 <211> LENGTH: 24  
302 <212> TYPE: DNA  
303 <213> ORGANISM: Artificial Sequence  
305 <220> FEATURE:  
306 <223> OTHER INFORMATION: Description of Artificial Sequence:random  
307 synthetic sequence  
309 <400> SEQUENCE: 21  
310 tacgagttga gagagtgccc acat 24  
313 <210> SEQ ID NO: 22  
314 <211> LENGTH: 24  
315 <212> TYPE: DNA  
316 <213> ORGANISM: Artificial Sequence  
318 <220> FEATURE:  
319 <223> OTHER INFORMATION: Description of Artificial Sequence:random  
320 synthetic sequence  
322 <400> SEQUENCE: 22  
323 tacgagttga gaatcctgaa tgcg 24  
326 <210> SEQ ID NO: 23  
327 <211> LENGTH: 24  
328 <212> TYPE: DNA  
329 <213> ORGANISM: Artificial Sequence  
331 <220> FEATURE:  
332 <223> OTHER INFORMATION: Description of Artificial Sequence:random  
333 synthetic sequence  
335 <400> SEQUENCE: 23  
336 tacgagttga gaatcctgaa tgct 24  
339 <210> SEQ ID NO: 24  
340 <211> LENGTH: 24  
341 <212> TYPE: DNA  
342 <213> ORGANISM: Artificial Sequence  
344 <220> FEATURE:  
345 <223> OTHER INFORMATION: Description of Artificial Sequence:random  
346 synthetic sequence

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 02/20/2003  
PATENT APPLICATION: US/09/975,059A TIME: 15:39:05

Input Set : A:\00-713-i15 Rev seq list.txt  
Output Set: N:\CRF4\02202003\I975059A.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:57; N Pos. 8

**VERIFICATION SUMMARY**

PATENT APPLICATION: **US/09/975,059A**

DATE: 02/20/2003

TIME: 15:39:05

Input Set : **A:\00-713-i15 Rev seq list.txt**  
Output Set: **N:\CRF4\02202003\I975059A.raw**

L:774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0